UFL

Xij = demand of i sat. from j

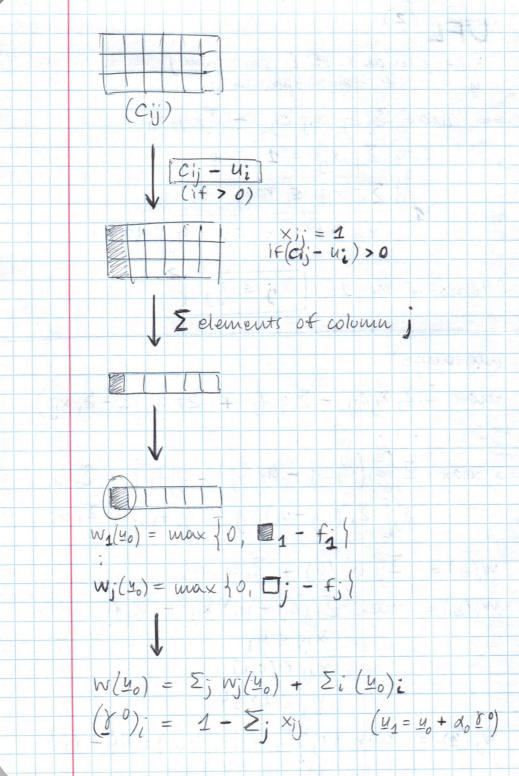
yj = 2 if depot open in j

= max 
$$\Sigma_i \Sigma_j$$
 xij  $C_{ij}$  -  $\Sigma_j$  yj  $f_j$ 

S.f.  $\Sigma_j$  xij  $\leq$  myj  $\leq$   $f_j$ 

1.  $\sum_i x_i j \leq m_i j \leq 1$ ,  $f_j \in \{0, 1\}$ 

Afternative for 1.  $\sum_i x_i j \leq 1$ ,  $\sum_i x_i j j$ 



1-tree ? spanning tree on VI 119 pils two edges incident in 1 STSP (2) min Zeet Xe Ce Hi CUT Zecoli) Xe = Z SCV, 1 = |S| = h Zees(s) xe = 2 Xe € 40,25 Zece(s) xe & |S|-1 SCV, |S|72 starting from SEC: MIN EEEE XECE Σεε di)xe = 2 xe ε 30, 24 Hi ZeEE(S) Xe E 151-1 SCV, 15/7,2,145 ZeeE Ne = n lagrangianire Eersli) Xe=2 tieV1915 min [ Zeek Xece + Zi u; (2- Zees(i) Xe) / Zes 8(2) Xe = 2 Zee E(s) Xe E 181-1 SCV, 18172, 145 EREE Xe = n xe € {0,2} Zee (Ce-ui-uj) xe + ZZiui

